

CCCCCCCCCCCC	0000000000	BBBBBBBBBBBB	RRRRRRRRRR	TTTTTTTTTTTT	LLL
CCCCCCCCCCCC	0000000000	BBBBBBBBBBBB	RRRRRRRRRR	TTTTTTTTTTTT	LLL
CCCCCCCCCCCC	0000000000	BBBBBBBBBBBB	RRRRRRRRRR	TTTTTTTTTTTT	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCC	000	000 BBB	BBB RRR	RRR	LLL
CCCCCCCCCCCC	0000000000	BBBBBBBBBBBB	RRR	RRR	TTT
CCCCCCCCCCCC	0000000000	BBBBBBBBBBBB	RRR	RRR	TTT
CCCCCCCCCCCC	0000000000	BBBBBBBBBBBB	RRR	RRR	TTT

FILE ID**COBACCDWK

F 12

A 10x10 grid of black dots. The pattern consists of two vertical columns of 10 dots each. The first column contains the letter 'L' at the top, followed by 9 'L's rotated 90 degrees clockwise. The second column contains the letter 'S' at the top, followed by 9 'S's rotated 45 degrees clockwise. A central vertical column of 10 dots forms a 'T' shape, with 4 dots at the top and 6 dots at the bottom.

```
1 0001 0 MODULE COBSACC_DAYWEEK (          ! file: COBACCDWK.B32 EDIT:MLJ1006
2 0002 0 IDENT = '1-006'
3 0003 0 )
4 0004 1 BEGIN
5 0005 1 ****
6 0006 1 ****
7 0007 1 ****
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
9 0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
10 0010 1 * ALL RIGHTS RESERVED.
11 0011 1 ****
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24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
25 0025 1 ****
26 0026 1 ****
27 0027 1 ****
28 0028 1 ****
29 0029 1 ++
30 0030 1 * FACILITY: COBOL SUPPORT
31 0031 1
32 0032 1 * ABSTRACT
33 0033 1
34 0034 1
35 0035 1
36 0036 1 * ENVIRONMENT: Vax-11 User Mode
37 0037 1
38 0038 1 * AUTHOR: MLJ , CREATION DATE: 16-JAN-1979
39 0039 1
40 0040 1 * MODIFIED BY:
41 0041 1
42 0042 1 1-001 - Original. MLJ 16-JAN-1979
43 0043 1 1-002 - Added boilerplate and comments. RKR 18-JULY-1979
44 0044 1 1-003 - Declare psects via library macro. RKR 23-AUG-1979
45 0045 1 1-004 - Change symbolic name of LIBRARY. RKR 1-OCT-79
46 0046 1 1-005 - Cosmetic changes. RKR 18-OCT-79
47 0047 1 1-006 - Rewrite to use simplified algorithm. MLJ 02-Aug-81
48 0048 1 --
49 0049 1
50 0050 1
51 0051 1 !<BLF/PAGE>
```

```
53      0052 1 | SWITCHES
54      0053 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
55      0054 1 |
56      0055 1 |
57      0056 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
58      0057 1 |
59      0058 1 |
60      0059 1 | LINKAGES
61      0060 1 |
62      0061 1 |     NONE
63      0062 1 |
64      0063 1 | TABLE OF CONTENTS:
65      0064 1 |
66      0065 1 | FORWARD ROUTINE
67      0066 1 |
68      0067 1 |     COBSACC_DAYWEEK : NOVALUE;
69      0068 1 |
70      0069 1 | INCLUDE FILES
71      0070 1 |
72      0071 1 |
73      0072 1 | REQUIRE 'RTLIN:RTLPSECT' ;           ! Macros for declaring psects
74      0167 1 | LIBRARY 'RTLSTARLE';
75      0168 1 |
76      0169 1 |
77      0170 1 | MACROS
78      0171 1 |
79      0172 1 |     NONE
80      0173 1 |
81      0174 1 | EQUATED SYMBOLS
82      0175 1 |
83      0176 1 |     NONE
84      0177 1 |
85      0178 1 | PSECT DECLARATIONS:
86      0179 1 |
87      0180 1 | DECLARE_PSECTS (COB) ;           ! Psects for COBS facility
88      0181 1 |
```

```

90 0182 1 GLOBAL ROUTINE COBSACC_DAYWEEK(DST): NOVALUE=
91 0183 1
92 0184 1 ++ FUNCTIONAL DESCRIPTION
93 0185 1
94 0186 1 Returns day_of_week as 1 - 7 corresponding to Mon. - Sun.
95 0187 1
96 0188 1 FORMAL PARAMETERS:
97 0189 1
98 0190 1 DST.wt.ds Address of descriptor of string to receive ans.
99 0191 1
100 0192 1 IMPLICIT INPUTS:
101 0193 1
102 0194 1 Date as supplied by SGETTIM.
103 0195 1
104 0196 1 IMPLICIT OUTPUTS:
105 0197 1
106 0198 1 NONE
107 0199 1
108 0200 1 ROUTINE VALUE:
109 0201 1 COMPLETION CODES:
110 0202 1
111 0203 1
112 0204 1
113 0205 1
114 0206 1
115 0207 1
116 0208 1
117 0209 1
118 0210 1
119 0211 2
120 0212 2
121 0213 2
122 0214 2
123 0215 2
124 0216 2
125 0217 2
126 0218 2
127 0219 2
128 0220 2
129 0221 2
130 0222 2
131 0223 2
132 0224 2
133 0225 2
134 0226 2
135 0227 2
136 0228 2
137 0229 2
138 0230 2
139 0231 2
140 0232 2
141 0233 2
142 0234 2
143 0235 2
144 0236 1

1
GLOBAL ROUTINE COBSACC_DAYWEEK(DST): NOVALUE=
++ FUNCTIONAL DESCRIPTION
Returns day_of_week as 1 - 7 corresponding to Mon. - Sun.

FORMAL PARAMETERS:
DST.wt.ds Address of descriptor of string to receive ans.

IMPLICIT INPUTS:
Date as supplied by SGETTIM.

IMPLICIT OUTPUTS:
NONE

ROUTINE VALUE:
COMPLETION CODES:
NONE

SIDE EFFECTS:
NONE
-- 

BEGIN
MAP
DST: REF BLOCK[,BYTE]; ! Pointer to destination descriptor
LOCAL
SYSTIM: VECTOR[2], ! Buffer for SGETTIM
QUOTIENT, ! Quotient from division
REMAINDER, ! Remainder (discarded)
BUFFER; ! Buffer for output character
BUILTIN
EDIV;

+
Get the system date and time. Divide by the number of least significant
bits in a day (864 x 10**9) to get the number of days since 17-Nov-1858.
Bias this result to account for day 0 being a Wednesday. Then, take the
result modulo 7 to get the day of the week such that Monday results in 0.
Finally, bias the result by ASCII '1' to get the answer as desired and
return it.

-
SGETTIM(TIMADR=SYSTIM);
EDIV(XREF(1000000000), SYSTIM, QUOTIENT, REMAINDER); ! Div by 10**9
QUOTIENT = .QUOTIENT / 864; ! Finish
BUFFER = ((.QUOTIENT + 2) MOD 7) + XC'1';
CH$COPY(1, BUFFER, XC' ', .DST[DSCSW_LENGTH], .DST[DSCSA_POINTER]);
END;

```

```

        .TITLE COBSACC_DAYWEEK
        .IDENT '1-006\'
        .EXTRN SYSSGETTIM
        .PSECT _COBSCODE,NOWRT, SHR, PIC,2
        .ENTRY COBSACC_DAYWEEK, Save R2,R3,R4,R5 : 0182
        .SUBL2 #12, SP
        .PUSHAB SYSTIM : 0231
        .CALLS #1, SYSSGETTIM
        .EDIV #1000000000, SYSTIM, QUOTIENT, REMAINDER : 0232
        .DIVL2 #864, QUOTIENT : 0233
        .EMUL #1, QUOTIENT, #2 -(SP) : 0234
        .EDIV #7, (SP)+, R6, R6
        .MOVAB 49(R0), BUFFER
        .MOVL DST, R6
        .MOVCS #1, BUFFER, #32, (R0), 34(R0) : 0235
        .RET : 0236

```

; Routine Size: 58 bytes, Routine Base: _COBSCODE + 0000

; 145 0237 1
; 146 0238 0 END ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
_COBSCODE	58	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	-----	Symbols	-----	Pages	Processing
	Total	Loaded	Percent	Mapped	Time
_S255\$DUA28:[SYSLIB]STARLET.L32;1	9776	5	0	581	00:00.7

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:COBACCDWK/OBJ=OBJ\$:COBACCDWK MSRC\$:COBACCDWK/UPDATE=(ENHS:COBACCDWK

COB\$ACC_DAYWEEK
1-006

K 12
15-Sep-1984 23:48:40
14-Sep-1984 12:10:21

VAX-11 Bliss-32 V4.0-742
[COBRTL.SRC]COBACCDWK.B32;1

Page 5
(3)

:)
: Size: 58 code + 0 data bytes
: Run Time: 00:02.4
: Elapsed Time: 00:13.8
: Lines/CPU Min: 5876
: Lexemes/CPU-Min: 20000
: Memory Used: 42 pages
: Compilation Complete

0060 AH-BT13A-SE
VAX/VMS V4.0

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